

Minutes from CAPS Committee Meeting on May 16, 2011

The state CAPS Committee met on May 16, 2011 at 1:00 pm at the Dean's Conference room, 137 Waters Hall at Kansas State University. In attendance were: Erin Stiers-USDA-APHIS, Vicki Wohlers-USDA-APHIS, Craig Webb-USDA-APHIS, Doug Jardine-KSU Plant Pathology, Megan Kennelly – KSU Plant Pathology, Sharon Dobesh-GPDN, Tim Todd-KSU Nematologist, Jeff Vogel-KDA, Jon Appel-KDA, Darin Banks-KDA, Jim Reimann-KDA, Nicole Ricci-KFS and Laurinda Ramonda-CAPS Coordinator.

Introductions were made.

Project Results for calendar year January 1-December 31, 2010:

- Karnal Bunt - 305 samples were taken in 78 counties. No karnal bunt detected.
- Red Imported Fire Ants – 61 live plant dealers in 25 counties were checked. No red imported fire ants detected.
- Small Grain & Soybean Commodity – 100 wheat fields checked in the central part of the state. 219 traps with 1,050 specimens were sent to Washington State for identification. No silver Y moth, Egyptian cotton leafworm, old world bollworm, maritime gardensnail were detected.
- Canada Thistle Biological Control – 1,859 Canada thistle stem mining weevils were released at Keith Sebelius Lake in Norton county.
- Spotted Knapweed Biological Control – 900 knapweed flower weevils and 1300 knapweed root weevils were released Nemaha county. New finds of spotted knapweed were found in Douglas, Johnson and Shawnee county.
- Emerald Ash Borer- 100 traps KDA and 100 traps USDA were set. No EAB was found.
- Walnut Twig Beetle and Thousand Cankers Disease of Walnut – (farm bill funding) – Canopy traps were set at 14 sawmills and visual inspections were done at the same time. No walnut twig beetles were found.
- Cereal Crop Nematode – 2008-2010 survey results are below with discussion.
 - There will be 40-50 samples taken this year for yield assessments.
 - A publication is planned for possibly this fall. This was the first survey of nematodes in the great plains region, no intensive survey had been done before.
 - 2,100 samples were taken. No exotics were found but in 2 locations root knot juveniles were found in the soil samples. The indication from these results and greenhouse bioassay, is that the root knot species is one that does not infect wheat but likely some weed species.

- Lesion nematodes are the #2 pest in wheat production in Kansas. There is a 2% wheat loss across Kansas.
- Soybean Cyst Nematode was a concern in Cherokee County, seems to be higher prevalence, also in areas where there are soybean/wheat rotations. These results mirror a similar SCN survey being conducted in the state.
- Seed companies are interested in lesion nematodes because of corn and wheat and potential losses.
- No pesticide registered for wheat, looking at resistance instead.

Caps Nematode Survey

2008 - 2010

By Tim Todd

Nematode Prevalence in KS Wheat Samples: CAPS Program, 2008-2010*

Nematode	Prevalence (%)	Avg. density (max) #/100 cm ³ soil
<i>Merlinius brevidens</i> <i>Quinisulcius acutus</i>	81	81 (1,880)
<i>Pratylenchus neglectus</i> <i>P. thornei</i>	61	48 (1,080)
<i>Paratylenchus projectus</i>	28	180 (6,520)
<i>Heterodera latipons</i> <i>H. avenae</i>	0	-
<i>H. glycines</i> **	2	-
<i>Meloidogyne artiellia</i>	0	-

*2,105 samples; **677 samples.

**Nematode Prevalence in KS Wheat
Samples: CAPS Program, 2008-2010***

Nematode	Prevalence (%)	Avg. density (max) #/100 cm ³ soil
<i>Helicotylenchus</i>	8	53 (1,220)
<i>Xiphinema</i>	4	11 (220)
<i>Hemicycliophora</i>	<1	201 (760)
<i>Paratrichodorus</i>	<1	11 (40)
<i>Criconemella</i>	<1	17 (40)

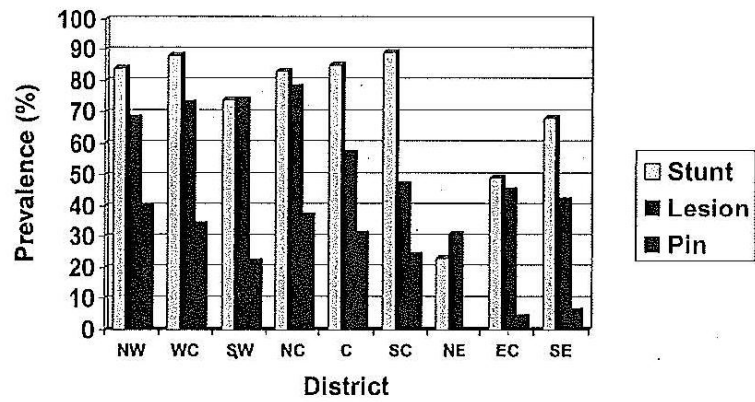
* 2,105 samples.

***Pratylenchus* Prevalence in KS Wheat Root
Samples: CAPS Program, 2008-2010***

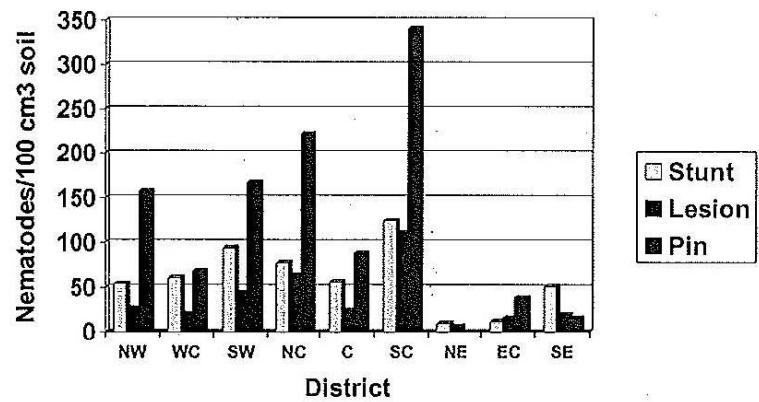
Nematode	Prevalence (%)	Avg. density (max) #/g root
<i>Pratylenchus neglectus</i>	75	1,965 (90,309)
<i>P. thornei</i>	1	1,015 (4,837)
<i>P. alleni</i>	<1	713 (2,852)
Total	77	1,942 (90,309)

* 2,105 samples.

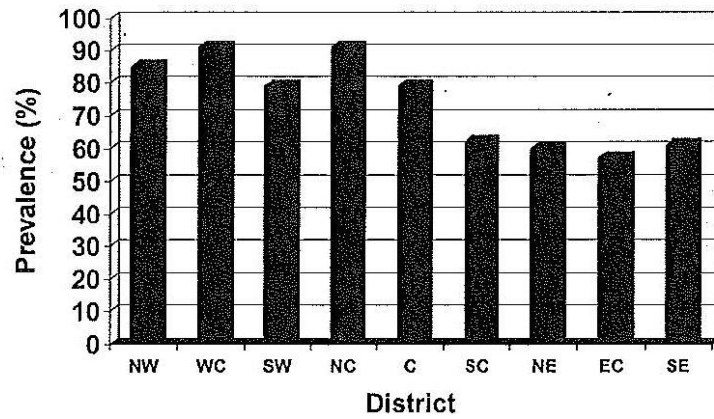
Nematode Prevalence by District



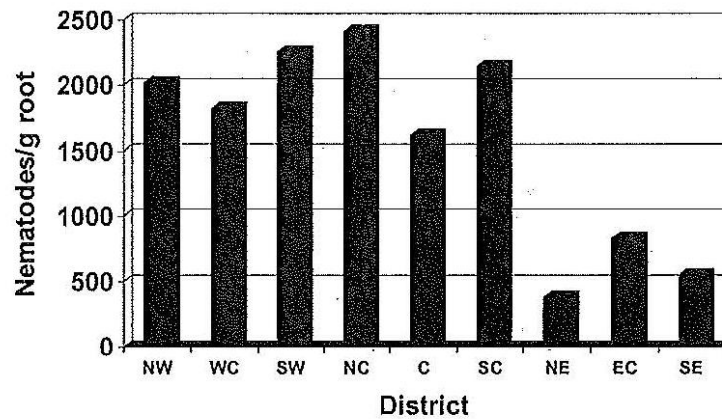
Nematode Population Density by District



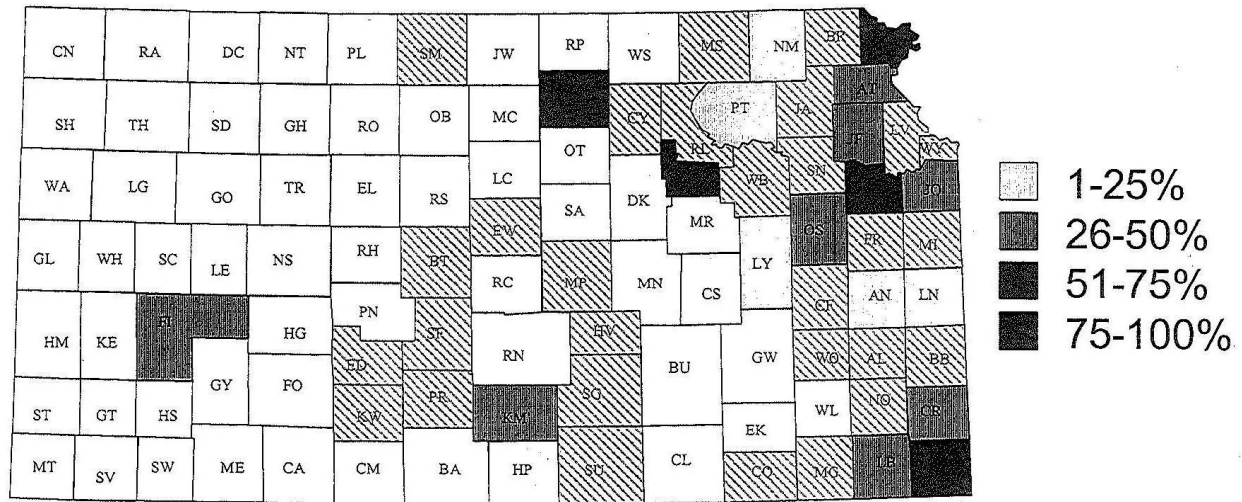
Lesion Nematode Prevalence by District



Lesion Nematode Population Density by District



SCN Survey Prevalence, 2010



Surveys Calendar year January 1-December 31, 2011:

- Exotic Oak Pest Commodity Survey (pest detection) – 3 year plan – 50 traps in 2011 in Northeast part of the state, 50 traps in 2012 in Southeast and 30 traps in 2013 in the western part of the state. Traps will be set for rosy gypsy moth, false codling moth, summer fruit tortrix, green oak tortrix, variegated golden tortrix, Asian and European gypsy moth. Planned from April with traps taken down in September.
- Winter Moth & Gypsy Moth Egg Survey (pest detection) – Trapping at 25 high risk live plant dealer sites in 15 counties in October – December.
- Emerald Ash Borer- 100 traps KDA and 100 traps USDA. Most traps have been set.
- Karnal Bunt – Every 2 years wheat samples will be taken from 2/3 of the state. 146 samples planned for the western counties (odd years) and 143 samples are planned for the central counties (even years).
- Spotted Knapweed Biological Control – Supplemental releases in Nemaha county and monitoring of previous released insects.

- Canada Thistle Biological Control – Supplemental releases at Keith Sebelius Lake and monitoring of previous released insects.
- Walnut Twig Beetle: Vector of Thousand Cankers Disease of Walnut (Farm bill proposal) – A Thousand Cankers Disease Survey Guideline for 2011 has been released from USDA. Kansas has been offered \$16,621 for this survey. The proposal was written in hopes that a trap and lure would be available this summer.
- Aquatic Invasives (federal noxious weeds) – Farm bill proposal – this was denied for funding.
- Don't Move Firewood Brochure – Farm bill proposal – this was denied for funding.
- Firewood Billboard campaign – Farm bill proposal – this was denied for funding.

State Specialist Updates:

Jon Appel – state plant pathologist:

- Soil and root samples will continue to be collected for nematodes.
- Samples will be taken for a wheat virus survey, one concern is wheat streak mosaic virus.
- 10-15 pine wilt samples per week have been coming in from western Kansas. There is a lot of public interest in the western counties.

Darin Banks-state weed specialist:

- The biocontrol insect release for Canada thistle in Norton county will be in August.
- The biocontrol insect release for spotted knapweed will occur again in Nemaha county.
- Recheck populations of spotted knapweed in Douglas and Johnson counties. There was only 1 plant found in Shawnee county but the spot will continue to be monitored. In 2010 head weevil parasitism was found. Will go back in June to look again.
- Hydrilla in Black Bob park – In June 2010, the pond was treated with Sonar 1. It was treated 2-3 times because of rainwater runoff. In August very little found. When it is found this year, samples will be sent to UC Davis for typing.

Jeff Vogel – program manager:

- Entomologist has been hired. Greg Chrislip will start on June 13. He is coming from West Virginia and has a forest entomology background.

USDA-APHIS-PPQ:

Erin Stiers:

- All EAB traps are hung.
- Gypsy Moth – 500 traps will be put out and they are going to be put out farther west in the state than usual. None were found last year and the delimits were negative.
- There is a new data collection system for surveys for USDA and it is known as IPHIS (integrated plant health information system).

- Check out NABB (Neighbors Against Bad Bugs) - <http://extension.entm.purdue.edu/eab/index.php?page=management/nabb>

Vicki Wohlers:

- Farm bill agreements will be a 12 month agreements from the time money received.
- Notice of CAPS funding may be known later this week.

State Specialists Updates:

Nichole Ricci:

- Still waiting on tri-state (Kansas, Colorado, Nebraska) money for TCD.
- Funding for and invasive species grant may soon be available for bush honeysuckle control.

Megan Kennelly:

- There has been a lot of outreach done for pine wilt and TCD.
- County agents have been involved in pine health issues and this may be used for other tree issues as well.
- Want to look for oak wilt to oak pest commodity survey when surveyor is in the field this year.
- Holly has reference samples for the walnut twig beetle.
- Great Plains Tree Pest Council is July 12-13 in Cheyenne, Wyoming.

Sharon Dobesh:

- Since the continuing resolution GPDN has been cut by 40%. Subcontracts to the other regions have been cut by 20%. States can make it through this year but not for sure about later. Several of the regions especially the west and great plains region are advocating for restored funding.
- GPDN is without a regional diagnostician.
- In the process of finding out what the impact is to each state with the reduced funding.
- As of July 1, Sharon will be the bee specialist in Entomology. Keep checking the swarm catcher list for updated information.

Doug Jardine:

- IPM PIPE soybean rust website platform is now being funded by the United Soybean Board. It is paying for the IT part and sentinel plots in some states but not in Kansas. The 1st map came out May 16. Not expecting it to be a big soybean rust year.
- Pilot phase for southern corn rust is also on the site.
- High levels of soybean cyst nematode in Finney, Kingman and Chautauqua counties. Could be because of sandy soil or crop rotations.
- There is a K-State Crop Disease facebook page. Has information on crop disease information from other states.
- The Crop Disease newsletter is discontinued. This information is now included in other newsletters such as horticulture newsletter.
- Leaf rust, stripe rust and head scab should be in low levels this year.
- Viruses in wheat seem to be higher this year.

Possible 2012 survey ideas:

- Khapra beetle
- Brown Marmorated Stink Bug (BMSB)
- 2012 Corn Commodity Manual is available.

Thanks to all who attended and the information shared.